



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

April 14, 2016

AJ Bos
Valley View Dairy Bruce, LLC
15857 Bear Mountain Blvd
Bakersfield, CA 93311

Re: Revised Phosphorus-Based Nutrient Management Plan (NMP)

Dear Mr. Bos:

The Department of Environment and Natural Resources (DENR) received your request to add the fields listed in the following table to your approved phosphorus-based nutrient management plan (NMP). Your existing phosphorus-based NMP is part of your application for coverage under the *General Water Pollution Control Permit for Concentrated Animal Feeding Operations* (general permit). Your animal feeding operation was originally approved on June 12, 2007, the permit application approval was transferred to you on July 20, 2012, and permit coverage was issued on September 11, 2012 (**general permit # SDG-0100398**).

Fields Being Added to NMP					
Field #	County	Legal Description	Available Acres	Soil Sampling Requirements	
				0-2 feet	Additional
62	Brookings	NE ¼, Section 28, T112N, R50W	132.5	Yes	No
63	Brookings	SW ¼, Section 24, T112N, R50W	138.5	Yes	No
64	Brookings	NW ¼, Section 25, T112N, R50W	136.9	Yes	No
65	Brookings	NE ¼, Section 6, T111N, R50W	113.5	Yes	Yes

We are approving the modifications and are including *Fields 62, 63, 64, and 65* in your approved phosphorus-based NMP. **Please put one copy of the approved field information in Appendix D of your copy of the permit.** You are required to comply with the terms and conditions of your permit.

You are also responsible for contacting the local planning and zoning office in the county where manure application will take place to determine if there are any local ordinances or requirements with which you need to comply.

All of the new fields require soil tests from zero to two feet prior to manure application.

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Field 65 is identified as being located over a shallow aquifer and has additional soil testing requirements. For this field, soil tests are required from 0 to 2 feet **and** 2 to 4 feet prior to manure application.

For fields that require additional soil testing from 2 to 4 feet, you have the option to either conduct the initial 0 to 2-foot and the 2 to 4-foot soil test prior to land application of manure or the alternative option to conduct the initial 0 to 2-foot soil test prior to manure application and a second 0 to 2-foot soil test within four weeks after harvesting the crop. Please refer to section 1.4.4.4., beginning on page 29 of the general permit, for the annual nutrient management requirements. **You must notify the department in writing if you plan to use the post-harvest soil sampling option.**

The application sites must be located at least 150 feet from a private well owned by you, 250 feet from a private well not owned by you and 1,000 feet from any public supply well or other public drinking water source. These setback distances from identified wells cannot be included as part of the land application acreage. Buffer zones are also required around any natural or manmade drainages or wetlands. Please review the buffer zone requirements on the land application maps included with the nutrient management plan in Appendix D of your permit prior to land applying manure.

To add fields to your approved phosphorus-based NMP, you must submit the required information for each additional field to the department for our review and approval. Information on adding fields to your approved phosphorus-based NMP may be obtained from your local Natural Resources Conservation Service (NRCS) office. You may also contact us for assistance at (605) 773-3351, or visit our website at <http://denr.sd.gov/des/fp/fieldadditions.aspx> for instructions on adding fields. **You may not apply manure to any fields not included in your approved phosphorus-based NMP.**

If manure application will involve placing hoses or other equipment in a state highway right of way (for example, in a road ditch or through a culvert), you must first obtain a Permit to Occupy Right of Way. Application for this permit may be made through the local South Dakota Department of Transportation area office. Contact your local SD DOT area office for more information on this permit. In addition, please contact your county highway superintendent to determine if your county has similar requirements.

Two copies of the field information are being retained for our files. The enclosed table is an updated listing of the fields that are currently approved for manure or wastewater application. The enclosed map shows the location of each field. Please review this information and notify the department if any of the information is incorrect. If the enclosed table and map are correct, please place them in your NMP.

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If you have any questions regarding the content of this letter, please feel free to contact Peter Adair, Feedlot Permit Program at (605) 773-3351. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul N. Wegleitner', with a long horizontal flourish extending to the right.

Paul N. Wegleitner
Natural Resources Project Engineer
Feedlot Permit Program

cc: Kevin Banken, Centrol, 333 Marian Ave., Brookings, SD 57006
Ricky Hesser, Northern Sky Dairy, 20165 468th Avenue, Bruce, SD 57220
Brookings County Commissioners

Enclosures: Field List
Field Map

Valley View Dairy Bruce, LLC Approved Field List

April 14, 2016

All fields require a zero to two foot soil test prior to manure application. The fields identified as being located over a shallow aquifer are shaded in the following table and have additional soil testing requirements. For these fields, soil tests are required from zero to two feet and two to four feet prior to manure application.

For fields that require additional soil testing from 2 to 4 feet, you have the option to either conduct the initial 0 to 2-foot and the 2 to 4-foot soil test prior to land application of manure or the alternative option to conduct the initial 0 to 2-foot soil test prior to manure application and a second 0 to 2-foot soil test within four weeks after harvesting the crop. Please refer to section 1.4.4.4., beginning on page 29 of the general permit, for the annual nutrient management requirements. **You must notify the department in writing if you plan to use the post-harvest soil sampling option.**

Based on the initial field information submitted for the fields listed in Table 1, manure application may be based on nitrogen need as determined from the table on page 29 of the general permit. However, before manure or wastewater can be applied to these fields, you must have a current soil test and use the table on page 29 of the permit to determine whether the field fits into a nitrogen need, phosphorus crop removal, or no application category based on the current phosphorus level of the field.

Table 1 – Valley View Dairy Bruce, LLC Nitrogen-Based Nutrient Management Plan Fields

Line #	Field or Tract #	County	Legal Description	Acres		Soil Sampling	
				Total	Available	0-2'	Additional
1	3010 F1,6	Brookings	W ½ of the SW ¼, Sec. 29, T112N, R50W	49.1	45.1	Yes	Yes
2	3010 F8,10	Brookings	NE ¼ of the SW ¼ & NW ¼ of the SE ¼, Sec. 29, T112N, R50W	70.8	68.5	Yes	Yes
3	3010 F7,8	Brookings	SE ¼ of the SW ¼ & SW ¼ of the SE ¼, Sec. 29, T112N, R50W	70.9	68.6	Yes	Yes
4	3010 F9	Brookings	E ½ of the SE ¼, Sec. 29, T112N, R50W	90.6	84.3	Yes	Yes
5	2325 F3A	Brookings	W ½ of the NE ¼, Sec. 33, T112N, R50W	33.0	33.0	Yes	No
6	2325 F3B	Brookings	W ½ of the E ½ of the NE ¼, Sec. 33, T112N, R50W	32.2	32.2	Yes	No
7	2325 F3C	Brookings	E ½ of the E ½ of the NE ¼, Sec. 33, T112N, R50W	33.2	33.2	Yes	No
8	2380 F1,2	Brookings	NE ¼, Sec. 31, T112N, R50W	138.5	126.5	Yes	Yes
9	997 F1A	Brookings	W ½ of the NE ¼, Sec. 17, T111N, R50W	71.4	61.1	Yes	Yes
10	997 F1B	Brookings	E ½ of the NE ¼, Sec. 17, T111N, R50W	75.3	71.0	Yes	Yes
11	5093 F4	Brookings	NW ¼, Sec. 21, T111N, R50W	88.6	82.6	Yes	Yes
12	5093 F8	Brookings	NE ¼, Sec. 21, T111N, R50W	144.0	132.0	Yes	Yes
13	5093 F6	Brookings	SE ¼ of the SE ¼, Sec. 16, T111N, R50W	37.8	34.8	Yes	Yes
14	4720 F2-7	Brookings	SW ¼, Sec. 5, T111N, R50W	149.3	141.3	Yes	No
15	3514 F1	Brookings	N ½ of the SE ¼, Sec. 4, T111N, R50W	72.6	72.6	Yes	Yes
16	5014 F7	Brookings	W ½ of the SW ¼, Sec. 8, T111N, R50W	75.9	72.9	Yes	No
17	2323 F1,2	Brookings	SW ¼, Sec. 31, T112N, R50W	108.5	101.0	Yes	Yes
18	2323 F1,3	Brookings	SE ¼, Sec. 31, T112N, R50W	121.1	116.6	Yes	Yes
20	2012 F1	Brookings	NE ¼, Sec. 11, T111N, R50W	110.3	92.3	Yes	Yes
21	2012 F2	Brookings	W ½, Sec. 12, T111N, R50W	225.5	210.5	Yes	No
22	2012 F3	Brookings	NW ¼, Sec. 6, T111N, R49W	144.7	143.7	Yes	No

Valley View Dairy Bruce, LLC Approved Field List

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Table 1 – Valley View Dairy Bruce, LLC Nitrogen-Based Nutrient Management Plan Fields

Line #	Field or Tract #	County	Legal Description	Acres		Soil Sampling	
				Total	Available	0-2'	Additional
23	2012 F4	Brookings	S ½, Sec. 2, T111N, R50W	291.1	285.1	Yes	Yes
24	2012 F5	Brookings	SW ¼, Sec. 31, T112N, R49W	128.6	122.6	Yes	No
25	2012 F6	Brookings	E ½, Sec. 34, T112N, R50W	153.8	140.8	Yes	No
26	2012 F7	Brookings	W ½ of the SW ¼, Sec. 35, T112N, R50W	26.5	24.5	Yes	Yes
27	2012 F8	Brookings	SE ¼, Sec. 3, T111N, R50W	106.4	97.4	Yes	No
28	2012 F9	Brookings	SE ¼, Sec. 32, T112N, R50W	74.2	66.2	Yes	No
29	2012 F10	Brookings	SE ¼, Sec. 10, T111N, R50W	93.5	84.5	Yes	Yes
30	2012 F11	Brookings	SW ¼, Sec. 11, T111N, R50W	146.3	136.3	Yes	Yes
31	2012 F12	Brookings	NE ¼, Sec. 15, T111N, R50W	145.2	130.2	Yes	Yes
32	2014 F1	Brookings	SE ¼, Sec. 36, T112N, R50W	153.7	152.7	Yes	No
33	2012 F14	Brookings	NW ¼, Sec. 33, T112N, R50W	95.2	85.2	Yes	No
34	2012 F15	Brookings	S ½ of the SE ¼, Sec. 4, T111N, R50W	66.9	64.9	Yes	Yes
35	2012 F16	Brookings	SE ¼, Sec. 5, T111N, R50W	112.8	95.8	Yes	No
36	2012 F17	Brookings	SE ¼, Sec. 8, T111N, R50W	135.0	120.0	Yes	No
37	2013 F1	Brookings	W ½ of the SW ¼, Sec. 4, T111N, R50W	70.9	62.9	Yes	No
38	2013 F2	Brookings	E ½ of the SW ¼, Sec. 4, T111N, R50W	39.4	29.4	Yes	No
44	4011 F1	Brookings	N ½ of the NE ¼, Sec. 7, T111N, R50W	66.5	61.2	Yes	Yes
45	4012 F1	Brookings	S ½ of the NE ¼, Sec. 7, T111N, R50W	79.8	74.5	Yes	Yes
46	2014 F2	Brookings	SW ¼, Sec. 8, T111N, R50W	68.0	56.0	Yes	No
47	3522 F1	Brookings	NW ¼ of the NE ¼, Sec. 10, T111N, R50W	40.3	38.3	Yes	Yes
48	3394 F1-6	Brookings	NW ¼, Sec. 15, T111N, R50W	88.6	78.6	Yes	Yes
49	2014 F3	Brookings	SW ¼, Section 33, T112N, R50W	160.0	156.0	Yes	Yes
50	5015 F5,6	Brookings	NW ¼, Sec. 8, T111N, R50W	141.5	141.5	Yes	No
51	2014 F4	Brookings	N ½, Sec. 3, T111N, R50W	206.0	176.0	Yes	Yes
52	2014 F5	Brookings	SW ¼, Sec. 3, T111N, R50W	70.6	66.6	Yes	Yes
53	2014 F6	Brookings	NW ¼, Sec. 32, T112N, R50W	125.4	120.9	Yes	Yes
54	2014 F7	Brookings	NE ¼, Sec. 8, T111N, R50W	146.0	146.0	Yes	No
55	55	Brookings	SW ¼, Sec. 10, T111N, R50W	147.0	141.0	Yes	Yes
56	56	Brookings	NE ¼, Sec. 16, T111N, R50W	72.3	60.3	Yes	Yes
57	57	Brookings	SE ¼, Sec. 20, T112N, R50W	74.5	64.5	Yes	Yes
58	58	Brookings	SE ¼, Sec. 33, T112N, R50W	118.3	103.3	Yes	No
59	59	Brookings	NW ¼, Sec. 28, T112N, R50W	62.0	58.0	Yes	No

Table 1 – Valley View Dairy Bruce, LLC Nitrogen-Based Nutrient Management Plan Fields							
Line #	Field or Tract #	County	Legal Description	Acres		Soil Sampling	
				Total	Available	0-2'	Additional
60	60	Brookings	NW ¼, Sec. 4, T111N, R50W	147.0	132.0	Yes	No
61	61	Brookings	SW ¼ & SW ¼ of the SE ¼, Sec. 20, T112N, R50W	145.0	145.0	Yes	Yes
62	62	Brookings	NE ¼, Section 28, T112N, R50W	135.5	132.5	Yes	No
63	63	Brookings	SW ¼, Section 24, T112N, R50W	152.5	138.5	Yes	No
64	64	Brookings	NW ¼, Section 25, T112N, R50W	151.9	136.9	Yes	No
65	65	Brookings	NE ¼, Section 6, T111N, R50W	139.5	113.5	Yes	Yes
Total Acres:				6,321.0	5,863.4		

Please note in your phosphorus-based NMP the estimated time it will take to build the listed fields up to 50 parts per million (ppm) (Olsen test) or 75 ppm (Bray-1 test) of phosphorus. You may need additional land in order to apply manure to your fields based on phosphorus crop removal at that time.

As indicated in your phosphorus-based NMP, none of the listed fields currently require manure application based on crop removal of phosphorus. If future soil tests identify fields with elevated phosphorus levels, the manure application rate must be based on phosphorus removal in the harvested portion of the crop. Manure application to these fields can be based on multi-year phosphorus crop removal, however application can not exceed the one year nitrogen crop need and no more manure may be applied to that field again until the applied phosphorus has been removed from the field via harvest and crop removal. Please refer to the table on page 29 of the general permit for the proper manure application determination.